**Terminating or Repeating?** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Convert each of the following to decimal form and then circle whether or not each is a terminating or repeating decimal.**

1. terminating

or

repeating

1. terminating

or

repeating

1. terminating

or

repeating

1. 3 terminating

or

repeating

1. terminating

or

repeating

1. 7 terminating

or

repeating

**Use a calculator to evaluate each of the following and then determine whether or not each has a terminating or repeating decimal.**

7. 8. 9. 10.

**What do you notice about the answers to #7-9. What makes #10 different?**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Is it “Rational” or “Irrational”?**

*Rational numbers* either \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Some examples are…

*Irrational numbers* DO NOT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Some examples are…

Write “rational” or “irrational” for each and state why.

1. 7 2. 9.8 3. 7.121212… 4.

5. 6. 7. 8.

9. 8.913475… 10. -17 11. 12. 5.143

13. 8.444… 14. 15. -9.4317 16.